## Crop Management/Agronomy

## **Course Description:**

This course investigates advanced crop production and management topics. Students develop an understanding of fertilization methods, resource management, pest management, technology use, marketing, and world hunger. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Course Code: 011008

Endoresements to teach: AFNR

## Programs of Study to which this Course applies:

Plant Systems
Plant Systems Plus

	AFNR.HS.5.1
	nplement a crop management plan for a given prodcution goal that accounts for environmental factors
AFNR.HS.5.1.a	Select crops based on geography and climate.
AFNR.HS.5.1.c	Develop and implement a fertilization plan for specific plants or crops.
	AFNO US S
	AFNR.HS.5.2
AFNR.HS.5.2.a	Utilize resources efficiently and sustainably for crop production.  Evaluate the impact of using cover crops.
AFNR.HS.5.2.b	Differentiate between various erosion control methods.
ATTAIN.113.3.2.D	Evaluate water requirements for plant production and select irrigation and crop management
AFNR.HS.5.2.c	strategies to efficiently utilize water.
	sindregies to emission, sindre material
	AFNR.HS.5.3
	Create a plan for integrated pest management for plant production.
AFNR.HS.5.3.a	Describe pest control strategies associated with integrated pest management.
AFNR.HS.5.3.c	Explain integrated pest management practices.
AFNR.HS.5.3.d	Discuss the advantages of integrated pest management.
	AFAID HE C. C.
Pro	AFNR.HS.5.5 pagate, culture, and harvest plants and plant products based on current industry standards.
AFNR.HS.5.5.a	Choose equipment for use in various crop production systems.
AFNR.HS.5.5.b	Communicate about common machinery and equipment used in plant production today.
AFNR.HS.5.5.c	Utilize technology and equipment for crop production.
AFNR.HS.5.5.e	Recognize key differences between GMO and Non-GMO crop production methods.
AFNR.HS.5.5.f	Evaluate common traits seed producers breed into new hybrids.
	AFNR.HS.5.7
	Develop awareness of factors influencing and affected by global plant production.
AFNR.HS.5.7.b	Explain imports and exports and their impact on practices and the economy.
AFNR.HS.5.7.c	Identify the major challenges of feeding the world.
AFNR.HS.5.7.d	Create a plan to combat hunger in a given area.
	AFNR.HS.5.8 Apply economic principles related to plant production.
AFNR.HS.5.8.a	Evaluate the economic return of different agronomic and horticultural crops in a particular
AFNR.HS.5.8.b	Describe current government regulations affecting crop production and marketing.
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	AFNR.HS.CR.1
Describe c	areer opportunities and means to achieve those opportunities in each of the AFNR career pathways.
	Evaluate and implement the steps and requirements to pursue a career opportunity in an AFNR caree
AFNR.HS.CR.1.a	pathway.
	Examine and choose career opportunities that are matched to personal life skills, talents, and career
AFNR.HS.CR.1.b	goals in an AFNR pathway of interest.
	AFNR.HS.CR.2
- FI ID I IO OD O	Demonstrate employability skills for college and career readiness.
AFNR.HS.CR.2.a	Model personal responsibility in the workplace and community.
	Synthesize information, knowledge and experience to generate original ideal and challenge
AFNR.HS.CR.2.d	assumptions in the workplace and community.
AFNR.HS.CR.2.e	Apply reason and logic to evaluate workplace and community situations from multiple perspectives.
AFNR.HS.CR.2.f	Investigate, prioritize and select solutions to solve problems in the workplace community.
* EVID 110 OD 0	Contribute to team-oriented projects and builds consensus to accomplish results using cultural global
AFNR.HS.CR.2.g	competence in the workplace and community.
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	AFNR.HS.CR.3
AFNR.HS.CR.3.a	Identify and demonstrate personal financial management and planning.  Design and implement a personal financial management plan.
	2008 and implement a personal interior management plan.
	AFNR.HS.CR.4
	Identify and demonstrate workplace safety.
	Identify and explain the implication of required regulations to maintain and improve safety, health an
AFNR.HS.CR.4.a	environments management systems.

AFNR.HS.CR.4.b	Apply health and safety practices to AFNR workplaces.
	Use appropriate protective equipment and demonstrate safe and proper use of AFNR tools and
AFNR.HS.CR.4.c	equipment.
	AFNR.HS.CR.5
Evaluate the na	ture and scope of the AFNR Career Cluster and the role of agriculture, food and natural resources (AFNR)
	in society and the economy.
AFNR.HS.CR.5.b	Identify public policies and examine their impact on AFNR systems.
	Examine the components of the AFNR systems and assess their impact on the local, state, national and
AFNR.HS.CR.5.c	global society and economy.
	AFNR.HS.CR.6
Identify a	nd demonstrate leadership skills and traits in demand of leadership roles in the agriculture industry.
AFNR.HS.CR.6.b	Craft SMART goals to achieve by the end of a specific agricultural education course.
AFNR.HS.CR.6.c	Write a career objective.
	Write and deliver a speech focused on a currently controversial topic within the agricultural industry
AFNR.HS.CR.6.f	while arguing both points of view.